

SPECIFICATION FOR 14- PIN DIP COMPATIBLE OSCILLATOR MtronPTI P/N M2014S132

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		20.000000		MHz	
Frequency Stability	ΔF/F	-100		+100	ppm	
Operating Temperature	T _A	0		+70	°C	
Storage Temperature	T _S	-55		+125	°C	
Aging		-5		+5	ppm	Per Year
Operating Voltage	V _{dd}	4.50	5.0	5.50	V	
Operating Current	I _{dd}			40	mA	
Output Type		HCMOS/TTL Compatible				
Output Load				50/10	pF/TTL	
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref. to ½ V _{dd}
Logic "1" Level	V _{OH}	90% V _{dd}			V	For HCMOS load
		V _{dd} - 0.5			V	For TTL load
Logic "0" Level	V _{OL}			10% V _{dd}	V	For HCMOS load.
				0.5	V	For TTL load.
Output Current Level	I _{OH}			- 8	mA	
	I _{OL}			+8	mA	
Rise/Fall Time	T _R /T _F			10	ns	From 10% to 90% V _{DD}
Start-Up Time	T _{SU}			10	ms	
Tri-state Function		Logic "1" or floating, enables output. Logic "0" disables output to a Hi-Z.				Pin1

Environmental Conditions:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C
Vibration	Per MIL-STD-202, Methods 201 & 204
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	+260°C for 10 secs. wave solder process.
Package Type	14-Pin DIP compatible resistance weld. RoHS compliant.

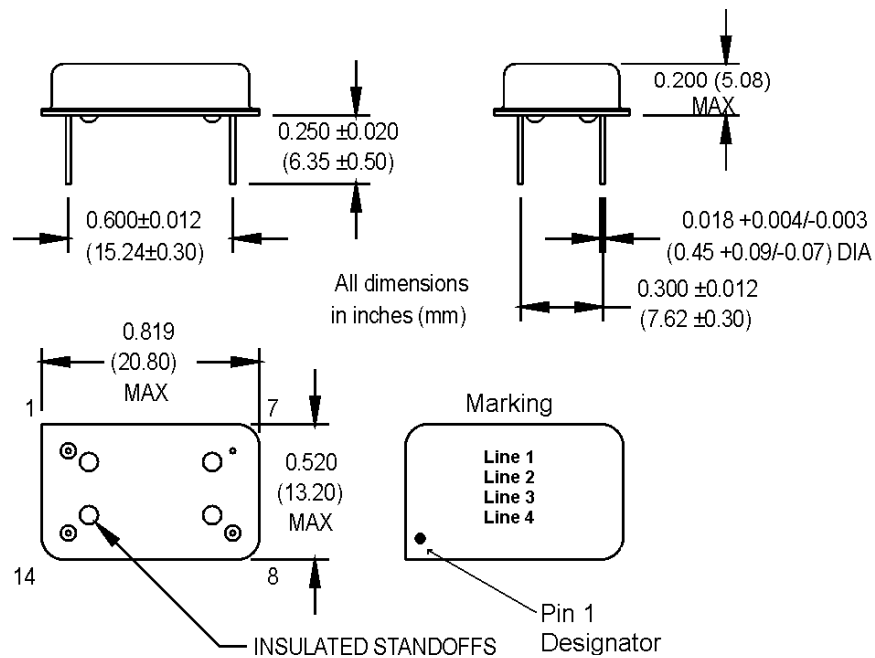
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Dimensions, Marking, and Pin Out Information:

Pin	Function
1	Tristate
7	Ground
8	Output
14	+V _{DD}

Part Marking	
Line 1	M2014S132
Line 2	20.000000 MHz
Line 3	MTRONPTI
Line 4	yy ww

Legend	
yy	Year
ww	Work Week



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
4/27/12	0	TOY	Original release.
4/28/12	A	TOY	Added Agilent P/N reference.
5/8/12	B	TOY	Revised the pin indication
08/05/14	C	MM	Corrected customer part number.